

FIKE CHEMICAL OU3
ADMINISTRATIVE RECORD FILE * **
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

1. Report: Compliance Monitoring and Wastewater Characterization of Fike Chemicals, Inc., Coastal Tank Lines, Inc., and Cooperative Sewage Treatment, Inc., Nitro, West Virginia, prepared by National Enforcement Investigations Center (NEIC) and U.S. EPA, 2/78. P. 100001-100185.
2. Report: Hazardous Site Inspection, Fike Chemicals, Inc., Nitro, West Virginia, prepared by National Enforcement Investigations Center and U.S. EPA, 6/80. P. 100186-100298.
3. Report: Hazardous Waste Site Analysis, prepared by Peter M. Stokely, 3/81. P. 100299-100314. A memorandum regarding the report is attached.
4. Report: Preliminary Report, Effects of Disposal Pond On Ground Water Quality, Fike Chemical Company, Nitro, West Virginia, prepared by Mr. John Northeimer, 7/30/76. P. 100315-100329.
5. Interim Checklist for Inspection of Generators, Fike Chemicals, Inc., 11/20/80. P. 100330-100334. An Interim Checklist for C.S.T., Inc. is attached.
6. Report: Plan of Action, Fike Chemicals, Inc., C.S.T., Inc., and Coastal Tank Lines, Inc., prepared by Technical Testing Laboratories, Inc., 1/15/83. P. 100335-100405. A cover letter is attached.
7. Memorandum to Mr. Rob Jelacic, West Virginia Department of Natural Resources, from Ms. Debbie Cremeans, West Virginia Department of Natural Resources, re: Site inspection summary, 2/28/83. P. 100406-100408. Five photographs are attached.

* Administrative Record File available 11/27/91, updated 1/16/92, 4/30/92, 4/9/93, 5/28/93, 6/30/93, 9/3/93, 3/5/96, and 05/9/97.

** Further information pertaining to Fike Chemical OU3 can be found in the Fike Chemical OU1 and OU2 Administrative Record Files.

8. Memorandum to Mr. Rob Jelacic, West Virginia Department of Natural Resources, from Ms. Debbie Cremeans, West Virginia Department of Natural Resources, re: Site inspection summary, 5/11/83. P. 100409-100411. A photograph and a letter dated May 10, 1983 regarding the rough grading and spreading of top soil over a ditch are attached.
9. Letter to Mr. Barrett Benson, and Mr. Steven Sisk, NEIC, and Mr. Robert L. Collings, U.S. EPA, from Mr. Harry K. Miller, III, Fike Chemicals, Inc., re: The first Progress Report, 10/3/83. P. 100412-100465. The following are attached:
 - a) the first Progress Report;
 - b) a letter regarding the October Progress Report, dated November 8, 1983;
 - c) the October Progress Report;
 - d) a letter regarding the suspension of ground water extraction operations, dated November 23, 1983;
 - e) a letter regarding the November Progress Report, dated December 1, 1983;
 - f) the November Progress Report;
 - g) a letter regarding the ground water contaminant plume, dated January 12, 1984;
 - h) a letter regarding the January Progress Report, dated February 13, 1984;
 - i) the January Progress Report;
 - j) a letter regarding a Progress Report, dated June 28, 1984;
 - k) a letter regarding a request for a 60-day extension for completion of diking, lining, and sump construction activities, dated June 28, 1984;
 - l) a letter regarding the C.S.T., Inc. oxidation ditch, dated March 12, 1985;

- m) a letter regarding a progress report, dated July 26, 1985;
 - n) a letter regarding the September Progress Report, dated October 22, 1985;
 - o) the September Progress Report.
- 10. Century Laboratories, Inc., Certificate of Analysis for sample identification number 010, 4/13/84. P. 100466-100470. A memorandum dated, July 12, 1983 regarding off-site soil and water sampling results, the sampling results, and a sampling location diagram are attached.
- 11. Trip Report summary, (no author cited), 7/11/84. P. 100471-100474.
- 12. Memorandum to Mr. Walter Lee, U.S. EPA, from Mr. John Austin, U.S. EPA, re: Dioxin quality assurance (QA) review of data for case 2948, 8/28/84. P. 100475-100499. Data for case 2948 is attached.
- 13. Memorandum to file from Mr. Douglas A. Donor, U.S. EPA, re: Actions to be taken by the state of West Virginia to resolve violations, 10/4/84. P. 100500-100504. A memorandum dated June 15, 1984 regarding the observance of the burning of waste materials at the site, a letter dated June 14, 1984 regarding a notice of violation, and a memorandum dated June 19, 1984 regarding open burning at the site are attached.
- 14. Report: A Field Trip Report for Fike Chemicals, Incorporated, prepared by NUS Corporation, 2/1/85. P. 100505-100826.
- 15. Report: Groundwater Monitoring Summary: Fike Chemicals, Inc., Coastal Tank Lines, C.S.T., Inc., prepared by Fike Chemicals, Inc., 2/25/85. P. 100827-100845.
- 16. Memorandum to file from Mr. Douglas A. Donor, U.S. EPA, re: Review of the RCRA Inspection Report, 7/2/85. P. 100846-100851. The following are attached:
 - a) a memorandum regarding well sampling, dated May 23, 1985;
 - b) a Table of Ground Water Well Data;

- c) a Sketch/Map - Sample Points;
 - d) a 3 Point Plot - Ground Water.
- 17. Memorandum to Mr. Doug Donor, U.S. EPA, from Mr. Bruce Moholt, U.S. EPA, re: A toxicological assessment of water samples, 12/9/85. P. 100852-100852.
- 18. Handwritten notes, re: Wastes at the site, prepared by Mr. Jim Heenehan, U.S. EPA, 2/11/86. P. 100853-100865. The following are attached:
 - a) a letter regarding transmittal of site data and insurance policy information, dated February 1, 1986;
 - b) a summary entitled "Disposition of drums and materials handled during removal action of June-July 1984;"
 - c) a list of Treatment Codes;
 - d) an Operating Record.
- 19. Memorandum to Mr. Bruce Smith, U.S. EPA, from Mr. Greg V. Bryant, U.S. EPA, re: Review of and changes to the Multimedia Inspection Report, 2/20/86. P. 100866-100872. Revised pages for the report are attached.
- 20. Memorandum to file from Mr. Jim Heenehan, U.S. EPA, re: Inspection of Lagoon #3, 3/14/86. P. 100873-100874. An Effluent Limitations and Monitoring Requirements table is attached.
- 21. U.S. EPA General Information form, Consolidated Permits Program, for C.S.T., Inc., 11/19/80. P. 100875-100879. A U.S. EPA Hazardous Waste Permit Application is attached.
- 22. U.S. EPA General Information form, Consolidated Permits Program, for Fike Chemicals, Inc., 11/19/80. P. 100880-100887. A U.S. EPA Hazardous Waste Permit Application is attached.
- 23. Memorandum to Mr. Robert Collings, U.S. EPA, from Mr. Robert Greaves, U.S. EPA, re: Summary of a July 28, 1981 Compliance Evaluation Inspection of the site, 9/23/81. P. 100888-100952. A memorandum dated

December 21, 1981 regarding the Trip Report and Inspection forms, a letter dated October 23, 1981 regarding the Inspection Report, and the Compliance Evaluation Inspection Report for C.S.T., Inc. are attached.

24. Memorandum to Mr. Robert Collings, U.S. EPA, from Mr. Douglas A. Donor, U.S. EPA, re: Summary of a July 28, 1981 Compliance Evaluation Inspection of the site, 6/3/82. P. 100953-100999. A letter dated March 5, 1982 regarding the Trip Report and Inspection forms and the Compliance Evaluation Inspection Report for Fike Chemicals, Inc. are attached.
25. Letter to Ms. Ann Pzyik, U.S. EPA, from Mr. Jackson C. Wolfe, West Virginia Department of Natural Resources, re: Transmittal of the August 16-17, 1983 permit compliance sampling inspection and biomonitoring report, 9/22/83. P. 101000-101015. The report is attached.
26. Chain of Custody Record for monitoring wells 15 and 16, 11/17/83. P. 101016-101020. Four Sample Report Sheets are attached.
27. Memorandum to file from Mr. Douglas A. Donor, U.S. EPA, re: Actions to be taken by the state of West Virginia to resolve inspection violations, 12/28/83. P. 101021-101047. A letter dated February 4, 1983 regarding transmittal of the Compliance Evaluation Inspection for Fike Chemicals, Inc.
28. Letter to Mr. Douglas Donor, U.S. EPA, from Mr. Harry K. Miller, Fike Chemicals, Inc., re: Ground water monitoring data and an explanation for the delay in processing the data, 6/11/84. P. 101048-101067. The following are attached:
 - a) letter regarding the completion of analysis of ground water samples, dated March 21, 1984;
 - b) seven diagrams of the site showing sampling locations and contaminant concentrations;

- c) an ether sampling results table;
 - d) a Delineation of Contaminant Plume in Groundwater table;
 - e) a letter regarding analysis information for ground water samples, dated May 18, 1984;
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- f) a Summary of Analytical Protocol;
 - g) a Summary of Protocol Used for Sampling;
 - h) a table of ground water sampling results.
29. Memorandum to Mr. Peter Schaul, U.S. EPA, from Mr. James L. Bailey, U.S. EPA, re: The August 21, 1984 site inspection, 10/2/84. P. 101068-101102. The following are attached:
- a) Attachment 1, Location Map;
 - b) an On-Site Sampling Results table;
 - c) a RCRA Checklist for Inspection of Generators;
 - d) a RCRA Checklist for Inspection of TSD Facilities, Fike Chemicals, Inc.;
 - e) a RCRA Checklist for Use and Management of Containers;
 - f) a RCRA Checklist for Surface Impoundments;
 - g) a RCRA Checklist for Inspection of TSD Facilities, C.S.T., Inc.;
 - h) a RCRA Checklist for Chemical, Physical, and Biological Treatment;
 - i) a RCRA Checklist for Tanks.
30. Letter to Ms. Ann Pzyik, U.S. EPA, from Mr. Jackson C. Wolfe, West Virginia Department of Natural Resources, re: Transmittal of the October 23 to 24, 1984 permit

compliance sampling inspection report, 12/18/84.
P. 101103-101122. The report is attached.

31. Report: Preliminary Process Testing Results for Surface Impoundments and Open-Top Tanks at Fike Chemicals, Nitro, West Virginia, prepared by Engineering-Science, 1/85. P. 101123-101143.
32. Memorandum to Mr. Peter Schaul, U.S. EPA, from Mr. James L. Bailey, U.S. EPA, re: The October 29 to 30, 1984 site inspection, 1/24/85. P. 101144-101168. The following are attached:
 - a) a memorandum regarding the August 21, 1984 site inspection, dated October 2, 1984;
 - b) five site photographs;
 - c) an influent and effluent data table;
 - d) sampling results for sample numbers 841831-22 to 841031-32;
 - e) a drawing of the site;
 - f) a Toxicity Test Conditions and Results table;
 - g) a Normalized Light Loss Method table;
 - i) an EPA Toxicity CST Sludge table.
33. Memorandum to Mr. Peter Schaul, U.S. EPA, from Mr. James L. Bailey, U.S. EPA, re: The October 29, 1984 site inspection, 1/28/85. P. 101169-101190. The following are attached:
 - a) sampling results from a site monitoring well;
 - b) a memorandum regarding aqueous sampling results, dated January 3, 1985;
 - c) a memorandum regarding water and sludge sampling results, sample numbers 841031-22 to 841031-32, dated November 20, 1984;

- d) water and sludge sampling results, sample numbers 841031-22 to 841031-32;
 - e) four site maps showing sampling locations;
 - f) a Plume Delineation and RCRA Ground Water Monitory table;
 - g) a photograph of the site.
34. Letter to Ms. Ann Pyzik, U.S. EPA, from Mr. Jackson C. Wolfe, West Virginia Department of Natural Resources, re: Transmittal of the March 13 to 14, 1985 permit compliance sampling inspection and biomonitoring report, 5/9/85. P. 101191-101206. The report is attached.
35. U.S. EPA, National Pollutant Discharge Elimination System (NPDES) Compliance Inspection Report, C.S.T., Inc., 1/16/86. P. 101207-101210.
36. Memorandum to Mr. Len Mangiaracina, U.S. EPA, from Mr. James L. Bailey, U.S. EPA, re: Analytical results collected from December 12, 1985 to January 6, 1986 at the site, 3/31/86. P. 101211-101264. The sampling results are attached.

II. REMEDIAL ENFORCEMENT PLANNING

1. Letter to Mr. Nicholas Berchtold, Registered Agent for Chemical Associates, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200001-200006.
2. Letter to Mr. Brent W. Schindler, The Dow Chemical Company, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200007-200012.
3. Letter to Mr. Larry Westreich, Artel Chemical Company, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200013-200018.
4. Letter to Mr. Elmer Fike from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200019-200024.
5. Letter to Mr. Alvin Sperber from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200025-200030.
6. Letter to Ms. Anne Smiley Rogers, Nutter, McClennen & Fish, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200031-200036.
7. Letter to Mr. Kenneth S. Komorski, Dickie, McCamey & Chilcote, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200037-200042.
8. Letter to Mr. David Deep, Kings, Deep & Branaman, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200043-200048.
9. Letter to Mr. Thomas Terp, Taft, Stettinius & Hollister, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200049-200054.
10. Letter to Ms. Kathleen M. Whitby, Husch, Eppenberger, Donohue, Cornfield & Jenkins, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200055-200060.
11. Letter to Mr. Christopher J.I. Gannon from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200061-200066.
12. Letter to Mr. Martin C. Pentz, Nutter, McClennen & Fish, from Mr. Abraham Ferdas, U.S. EPA, re: Special

notice letter, 6/19/92. P. 200067-200072.

13. Letter to Mr. David Bock, Ethyl Petroleum Additives, Inc., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200073-200078.
14. Letter to Mr. James D. Allen and Ms. Brenda S. Fedorak, E.I. du Pont de Nemours & Co., Inc., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200079-200084.
15. Letter to Mr. Scott E. Allbery, Buckingham, Doolittle and Burroughs, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200085-200090.
16. Letter to Mr. Leo Grandine, Hamford Research, Inc., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200091-200096.
17. Mr. Herbert R. Runne and Ms. Linda Daucette-Ashman, American Cyanamid Company, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200097-200102.
18. Letter to Ms. Kristina M. Woods, Ashland Chemical Company, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200103-200108.
19. Letter to Specialty Polymers, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200109-200114.
20. Letter to Mr. Bruce Adler and Mr. James D. Baker, Union Carbide Corporation, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200115-200120.
21. Letter to Mr. Steve J. Killworth, Shell Oil Co., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200121-200126.
22. Letter to Mr. William Vetter, Rockwell International Corporation, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200127-200132.
23. Letter to Mr. David C. Cannon, Jr., PPG Industries, Inc., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200133-200138.

24. Letter to Mr. Sheldon W. Rothstein, Polaroid Corporation, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200139-200144.
25. Letter to PB&S Chemical Company, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200145-200150.
26. Letter to Mr. Jeffrey C. Wyant, Morton International, Inc., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200151-200156.
27. Mr. Michael F. Weishaar, Monsanto Chemical Company, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200157-200162.
28. Mr. Spencer J. Nunley and Mr. Darial Killinger, Mobay Corporation, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200163-200168.
29. Letter to Lord Corporation, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200169-200174.
30. Letter to Mr. James A. Lucas, McGean-Rohco, Inc., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200175-200180.
31. Letter to Hollingsworth & Vose, Co., from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/19/92. P. 200181-200186.
32. Letter to the Honorable Lewis D. Walker, The Pentagon, from Mr. Abraham Ferdas, U.S. EPA, re: Notice of potential liability, 6/25/92. P. 200187-200193.
33. Letter to F.P. Rullo, Chemlink, from Mr. Abraham Ferdas, U.S. EPA, re: Notice of potential liability, 6/25/92. P. 200194-200200.
34. Letter to Mr. Larry Westreich, Artel Chemical Company, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/25/92. P. 200201-200206.
35. Letter to Mr. Ron Bechtel, Halliburton Services, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/25/92. P. 200207-200212.
36. Letter to Uniroyal Chemical Company, from Mr. Abraham

Ferdas, U.S. EPA, re: Special notice letter, 6/25/92.
P. 200213-200218.

37. Letter to Mr. Lawrence Reed, Dow/Corning Corporation, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/25/92. P. 200219-200224.
38. Letter to Mr. Marshall Bishop, Phillips Chemical Company, from Mr. Abraham Ferdas, U.S. EPA, re: Notice of potential liability, 6/25/92. P. 200225-200231.
39. Letter to Ms. Donna Dobbs, Shumany & Merle, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/25/92. P. 200232-200237.
40. Letter to R.C. Hazaga, AFF Inc., from Mr. Abraham Ferdas, U.S. EPA, re: Notice of potential liability, 6/25/92. P. 200238-200245.
41. Letter to Ms. Ann MacNaughton Turner, Vinson & Elkins, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/25/92. P. 200246-200251.
42. Letter to South Carolina Refining and Disposal, from Mr. Abraham Ferdas, U.S. EPA, re: Notice of potential liability, 6/25/92. P. 200252-200258.
43. Letter to Mr. Fred Buckner, Hercules Incorporated, from Mr. Abraham Ferdas, U.S. EPA, re: Special notice letter, 6/25/92. P. 200259-200264.
44. Letter to Ms. Anne Smiley Rodgers, Nutter, McClennen & Fish, from Mr. James Heenehan, U.S. EPA, re: Client liability, 7/1/92. P. 200265-200273. The above letter addressed to the following people are attached:
 - a) Mr. Kenneth S. Komorski, Dickie, McCamey & Chilcote;
 - b) Mr. David Deep, Kings, Deep & Branaman;
 - c) Mr. Thomas Terp, Taft, Stettinus & Hollister;
 - d) Ms. Kathleen M. Whitby, Husch, Eppenberger, Donohue, Cornfield & Jenkins;
 - e) Mr. Christopher J.I. Gannon;
 - f) Mr. Martin C. Pentz, Nutter, McClennen &

Fish;

g) Ms. Ann MacNaughton Turner, Vinson & Elkins;

h) Ms. Donna Dobbs, Shumany & Merle.

45. Letter to S.K. McDonald, Optima Chemicals, Inc., from Mr. Jim Heenehan, U.S. EPA, re: Transmittal of the special notice letter and good faith offer deadline, 8/11/92. P. 200274-200282. The special notice letter is attached.
46. Complaint, United States of America, Plaintiff, v. Fike Chemicals, Inc.; C.S.T., Inc.; and Coastal Tank Lines, Inc., Defendants, 1980. P. 200283-200297.
47. Order, David W. Robinson, Chief, Water Resources Division of the West Virginia Department of Natural Resources, Plaintiff, v. Fike Chemicals, Inc.; Coastal Tank Lines, Inc.; and C.S.T., Inc., Defendants, Civil Action No. 78-C-369, 4/15/81. P. 200298-200303.
48. Consent Decree, United States of America, Plaintiff, v. Fike Chemicals, Inc.; C.S.T., Inc.; and Coastal Tank Lines, Inc., Defendants, Civil Action No. 80-2497, 11/16/82. P. 200304-200326.
49. Order to Fike Chemicals, Inc., and C.S.T., Inc., re: Order No. 829, 3/18/83. P. 200327-200331.
50. Letter to Mr. John Northeimer, West Virginia Department of Natural Resources, from Mr. Stephen R. Wassersug, U.S. EPA, re: Transmittal of the Complaint, Compliance Order, and Notice of Opportunity for Hearing, 5/9/84. P. 200332-200340. A letter dated May 9, 1984 regarding the Complaint and the Compliant, Docket No. RCRA-III-105, are attached.
51. Letter to Mr. Ralph Hoyer, Hoyer, Hoyer, & Berthold, from Mr. Jim Heenehan, U.S. EPA, re: Completion of site work required by the Consent Decree, 2/4/85. P. 200341-200342.
52. Letter to Mr. Elmer Fike, C.S.T., Inc., from Mr. Stephen R. Wassersug, U.S. EPA, re: A notice of deficiency and a notice of violation, 3/12/85. P. 200343-200244.
53. Letter to Mr. Ralph Hoyer, Hoyer, Hoyer, & Berthold,

from Mr. Jim Heenehan, U.S. EPA, re: Revisions to the Consent Decree, 3/21/85. P. 200345-200346.

54. Letter to Mr. Elmer Fike, Fike Chemicals, Inc., from Mr. Richard M. Melvin, West Virginia Department of Natural Resources, re: A deficient permit application, 3/27/85. P. 200347-200362. A list of additional information to be submitted is attached.
55. Memorandum to file from Mr. Jim Heenehan, U.S. EPA, re: Summary of a meeting between EPA, West Virginia Department of Natural Resources, U.S. Department of Justice, and Fike Chemicals, Inc. concerning Consent Decree and permit application compliance, 3/27/85. P. 200363-200367. A meeting attendance list is attached.
56. Letter to Mr. Elmer Fike, C.S.T., Inc., from Mr. Roland W. Schrecongost, U.S. EPA, re: Explanation of actions to be taken to not loose interim status at the site, 7/2/85. P. 200368-200369.
57. Letter to Ms. Shirley Bulkin, U.S. EPA, from Ms. Kay Holub Breeden, A.T. Kearney, Inc., re: Comments on the notice of deficiency and a checklist used in the review for completeness of the C.S.T., Inc. permit application, 8/29/85. P. 200370-200419. The checklist is attached.
58. Letter to Mr. Elmer Fike, Fike Chemicals, Inc., from Mr. Stephen R. Wassersug, U.S. EPA, re: Denial of a Hazardous Waste Permit application for C.S.T., Inc., 11/15/85. P. 200420-200422. A Public Notice regarding a Notice of Intent to Deny a Permit Under the Resource Conservation and Recovery Act (RCRA) is attached.
59. Consent Agreement and Consent Order, In Re: Fike Chemical, Inc., Respondent, Docket No: RCRA-III-105, 12/12/85. P. 200423-200429. A transmittal letter is attached.
60. Letter to Mr. Elmer Fike, Fike Chemicals, Inc., from Mr. Stephen R. Wassersug, U.S. EPA, re: Final decision to deny a Hazardous Waste Permit for C.S.T., Inc., 3/14/86. P. 200430-200431.
61. Letter to Mr. Elmer Fike, C.S.T., Inc., from Mr. Stephen R. Wassersug, U.S. EPA, re: Compliance with the interim status certification requirements, 3/14/86.

P. 200432-200435.

62. Report: Response to RCRA Part B Permit Application - Notice of Deficiency for C.S.T., Inc., (no author cited), (undated). P. 200436-200491.
63. Finding of Violation and Order for Compliance, In The Matter Of: C.S.T. Incorporated, Docket No. III-76-22-W, 5/20/76. P. 200492-200495.
64. Authorization to Discharge Under the National Pollutant Discharge Elimination System (NPDES), Permit No. WV0001651, 3/5/82. P. 200496-200505.

III. REMEDIAL RESPONSE PLANNING

1. Report: Geophysical Survey Report for Fike Chemical Company, Magnetometer and Electromagnetic Surveys, prepared by U.S. EPA, 2/90. P. 300001-300111.
2. Memorandum to file from Mr. Darius Ostrauskas, U.S. EPA, re: Draft Remedial Investigation Report for Fike Chemical Site prepared by NUS Corporation, 11/8/91. P. 300112-300112.
3. Report: Draft Remedial Investigation, Volume I of III, Fike Chemicals Site, Nitro, West Virginia, prepared by Ebasco Services Incorporated, 7/90. P. 300113-300349.
4. Report: Draft Remedial Investigation, Volume II of III, Fike Chemicals Site, Nitro, West Virginia, prepared by Ebasco Services Incorporated, 7/90. P. 300350-300547.
5. Report: Draft Remedial Investigation, Volume III of III, Fike Chemicals Site, Nitro, West Virginia, prepared by Ebasco Services Incorporated, 7/90. P. 300548-300744.
- * 6. Report: Fike Chemicals Site, Work Plan for Focused Feasibility Study for Buried Drums & Containers, (no author cited), 3/91. P. 300745-300920.
7. Report: Draft Focused Feasibility Study for Buried Drums and Containers, Fike Chemical Site, Nitro, West Virginia, prepared by CH2M Hill, 6/91. P. 300921-301132.
8. Letter to Mr. Greg Mott, CH2M Hill, from Mr. Darius Ostrauskas, U.S. EPA, re: EPA's comments on the Draft Focused Feasibility Study, 11/27/91. P. 301133-301141.
9. Letter to Mr. Darius Ostrauskas, U.S. EPA, from Mr. Riad Tannir, State of West Virginia Department of Commerce, Labor, and Environmental Resources, re: State's comments on the Draft Work Plan, 3/29/91.
- * Due to a photocopying error, all odd numbered pages between 300746 and 300781 are missing from the Administrative Record File.

P. 301142-301142.

10. Letter to Mr. Darius Ostrauskas, U.S. EPA, from Mr. Riad Tannir, State of West Virginia Department of Commerce, Labor, and Environmental Resources, re: Review of the Draft Focused Feasibility Study, 6/27/91. P. 301143-301143.
11. Letter to Mr. Greg Mott, CH2M Hill, from Mr. Paul Alessio, NUS Corporation, re: Transmittal of interview records, 4/15/91. P. 301144-301264. The interview records are attached.
12. U.S. EPA Proposed Plan, Fike/Artel Chemical Site, Nitro, West Virginia, 12/91. P. 301265-301278.
13. Letter to Mr. Darius Ostrauskas, U.S. EPA, from Mr. G. Max Robertson, West Virginia Department of Commerce, Labor, and Environmental Resources, re: Review of the Draft Proposed Plan, 11/18/91. P. 301279-301279.
14. Memorandum to file from Mr. Darius Ostrauskas, U.S. EPA, re: Potential risk to human health and the environment from buried drums, 11/27/91. P. 301280-301282.
15. Memorandum to Mr. Darius Ostrauskas, U.S. EPA, from Mr. Richard L. Brunner, U.S. EPA, re: Presence of hazardous substances in buried drums, 11/27/91. P. 301283-201283.
16. Report: Chemical, Physical, and Biological Properties of Compounds Present at Hazardous Waste Sites, Final Report, prepared by Clement Associates, Inc., 9/27/85. P. 301284-301334.
17. Report: Comments on U.S. Environmental Protection Agency Proposed Plan and Supporting Documentation, (no author cited), 12/91. P. 301335-301356.
18. Letter to Mr. John McGahred, Pitney, Hardin, Kipp & Szuch, from Mr. Jim Heenehan, U.S. EPA, re: Uncovered tanks at the site, 12/19/91. P. 301357-301360.
19. Letter to Mr. William H. Hyatt, Jr., Pitney, Hardin, Kipp & Szuch, from Mr. Abraham Ferdas, U.S. EPA, re: Notice of approval for extension of the public comment

period for the Proposed Plan, 12/30/91. P. 301361-301361.

20. Letter to Mr. Paul Leonard, U.S. EPA, from Mr. William H. Hyatt, Pitney, Hardin, Kipp & Szuch, re: Comments on the Proposed Plan, 1/30/92. P. 301362-301363. A list of companies is attached.
21. Listing of Government Specifications, U.S. Government Explosives Plant "C", Description of Specification, 1/30/92. P. 301364-301380.
22. Listing of Photos Taken, U.S. Government Explosives Plant "C", 1/30/92. P. 301381-301391. The following are attached:
 - a) a listing of Various Photos Taken;
 - b) an Index of Photographs, Book I;
 - c) an Index of Photographs, Book II;
 - d) a listing of photos during Fike ownership.
23. U.S. Government Explosives Plant "C", listing of Government & Successor Owner/Operation Documents, 1/30/92. P. 301392-301394.
24. U.S. Government Explosives Plant "C", listing of Miscellaneous and Topographical Maps, 1/30/92. P. 301395-301396.
25. U.S. Government Explosives Plant "C", listing of Final Plat Plans, 1/30/92. P. 301397-301397.
26. U.S. Government Explosives Plant, listing of Area Maps - Drawing List, 1/30/92. P. 301398-301545.
27. Letter to Mr. Paul Leonard, U.S. EPA, from Mr. John McGahren, U.S. EPA, re: Comments on the Proposed Plan, 1/31/92. P. 301546-301551. Attachment A, list of companies; page 22, the signature page of the comments on the Proposed Plan; and Table 1, World War I U.S. Government Explosives Plant "C" Materials Associated with the Fike/Artel Site are attached.
28. Letter to Mr. Paul Leonard, U.S. EPA, from Mr. J. Greg Mott, CH2M Hill, re: Use of information from the Draft RI in developing the Focused Feasibility Study, 3/27/92. P. 301552-301552.
29. Memorandum to J. Henna from Mr. Paul H. Leonard, U.S.

- EPA, re: Data validation processes used in developing the Remedial Investigation, 3/27/92. P. 301553-301553.
30. Memorandum to Mr. Edwin B. Erickson, U.S. EPA, from Mr. Abe Ferdas, U.S. EPA, re: Transmittal of the Record of Decision, 3/30/92. P. 301554-301555. A list of concurrences is attached.
 31. Letter to Mr. Paul Leonard, U.S. EPA, from Mr. G. Max Robertson, State of West Virginia Department of Commerce, Labor and Environmental Resources, re: Review of the Draft ROD, 3/31/92. P. 301556-301556.
 32. Record of Decision, Fike/Artel Chemical Site, prepared by U.S. EPA, 3/31/92. P. 301557-301625.
 33. U.S. Government Explosives Plant "C", list of Specifications, (undated). P. 301626-301626.
 34. Information package, U.S. Government Explosives Plant-C-Nitro, WVa, prepared by Graham, Anderson, Probst, & White, (undated). P. 301627-301764.
 35. Memorandum to Mr. Tony D'Appolone, U.S. EPA, from Ms. Diana Baldi, U.S. EPA, re: Transmittal of the Organic Data Validation for SAS number 3155I, 6/7/88. P. 301765-302014. The following are attached:
 - a) the Organic Data Analysis for SAS number 3155I;
 - b) Appendix A, Glossary of Data Qualifiers;
 - c) Appendix B, Data Summary Forms;
 - d) Appendix C, Form Inorganics (Is) As Reported by the Laboratory for All Target Compounds;
 - e) Appendix D, Reviewed and Corrected Tentatively Identified Compound Lists;
 - f) Appendix E, DPO Report for Contractual Compliance;
 - g) Appendix F, Support Documentation;

- h) a memorandum regarding transmittal of the Organic Data Validation for SAS 3155I, dated July 19, 1988;
- i) the Organic Data Validation for SAS number 3155I;
- j) Appendix A, Glossary of Data Qualifiers;
- k) Appendix B, Data Summary;
- l) Appendix C, Results as Reported by the Laboratory for All Target Compounds;
- m) Appendix D, Reviewed and Tentatively Identified Compounds;
- n) Appendix E, DPO Report;
- o) Appendix F, Support Documentation.

36. Memorandum to Ms. Lynn Wilder, U.S. EPA, from Mr. Paul Alessio, NUS Corporation, re: Fast Track data collected from March 1 to 10 at the site, 8/2/88. P. 302015-302080. The following are attached:

- a) a Limited Sampling Locations Map;
- b) a CST Facility Layout;
- c) soil sampling results for sample numbers FB-SO-117, FB-SO-119 to FB-SO-124, FS-SO-123A, and FS-SO-123C;
- d) liquid sampling results for sample numbers FB-LQ-103, FB-LQ-108, FB-LQ-110, FS-LQ-101, FS-LQ-102, FS-LQ-106, FS-LQ-107, FS-LQ-109, FS-LQ-111 to FS-LQ-116, FS-LQ-118, and FS-LQ-125 to FS-LQ-128;
- e) sludge sampling results for sample numbers FB-SL-135, FB-SL-101, FS-SL-104 to FS-SL-107, FS-SL-109, FS-SL-111 to FS-SL-113, FS-SL-115A, FS-SL-115C, FS-SL-118, and FS-SL-125 to FS-SL-134;
- f) EP tox samples for sample numbers FS-SL-101, FS-SL-104, FS-SL-105, FS-SL-109, FS-SL-112, FS-SL-112D, FS-SL-113, FS-SL-113D, FS-SL-115,

and FS-SL-125 to FS-SL-134.

37. Memorandum to Mr. Tony D'Appolone, U.S. EPA, from Ms. Theresa A. Simpson, U.S. EPA, re: Transmittal of Dioxin Data Validation for SAS number 4065C, 12/19/88. P. 302081-302090. The Data Validation for SAS number 4065C and Appendix A, Table 1 - Toxicity Equivalent (TE), are attached.
38. Memorandum to Mr. Stanley L. Laskowski, U.S. EPA, from Mr. Thomas C. Voltaggio, U.S. EPA, re: Request for a signature on the Explanation of Significant Differences (ESD), 5/12/93. P. 302091-302091.
39. Explanation of Significant Differences, Fike/Artel Chemical Site, Operable Unit 3, Nitro, West Virginia, 5/19/93. P. 302092-302169.
40. Information package, Fike Chemical sampling data, (no author cited), (undated). P. 302170-302242.
41. Untitled Report, prepared by JRB Associates, Inc., (undated). P. 302243-302360.
- * 42. Video Tape of the Fike Chemicals Site, prepared by U.S. EPA, 7/12/84.
- * 43. Video Tape of the Fike Chemicals Site, prepared by U.S. EPA, 6/16/88.
- * 44. Video Tape of the Fike Chemicals Site and The Flood of 1985 in Roanoke, Virginia, prepared by U.S. EPA, 10/9/88.
45. Letter to Mr. Eugene P. Wingert, U.S. EPA, from Mr. Warren L. Smull, Fike/Artel Trust, re: Comments on the scheduling and coordinating aspects of the Administrative Order, 8/11/93. P. 302361-302368. The comments and two Activity Barcharts are attached.

EXPLANATION OF SIGNIFICANT DIFFERENCES

46. Memorandum to Mr. Thomas C. Voltaggio, U.S. EPA, from Mr. Abraham Ferdas, U.S. EPA, re: Transmittal of the Explanation of Significant Differences (ESD), Fike/Artel Chemical OU3 Site, 1/30/96. P. 302369-302380. The ESD is attached.

47. Report: Final Design Submittal, Fike Chemical OU3 Superfund Site, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 302381-302388.

* The video tapes of the site are available at the U.S. EPA Region III offices in Philadelphia, PA. Please contact the Remedial Project Manager for the site, Gene Wingert, at (215) 566-3238 to arrange for a viewing of the tapes.

48. Report: Final Design Submittal, Confirmation Investigation Results, Fike Chemical OU3 Superfund Site, Volume 1, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 302389-302666.
49. Report: Final Design Submittal, Design Criteria, Fike Chemical OU3 Superfund Site, Volume 2, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 302667-302814.
50. Report: Final Design Submittal, Design Criteria, Fike Chemical OU3 Superfund Site, Volume 2 Appendices C-N, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 302815-303182.
51. Report: Final Design Submittal, Project Delivery Strategy, Fike Chemical OU3 Superfund Site, Volume 3, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303183-303185.
52. Report: Final Design Submittal, Technical Specifications, Fike Chemical OU3 Superfund Site, Volume 4, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303186-303255.
53. Report: Final Design Submittal, Sampling and Analysis Plan, Fike Chemical OU3 Superfund Site, Volume 5, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303256-303319.
54. Report: Final Design Submittal, Construction Quality Assurance Plan, Fike Chemical OU3 Superfund Site, Volume 6, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303320-303340.
55. Report: Final Design Submittal, Site-Wide Excavation Plan, Fike Chemical OU3 Superfund Site, Volume 7, prepared by ICF Kaiser Engineers, Inc., 1/31/96.

P. 303341-303365.

56. Report: Final Design Submittal, Remedial Action Emissions Control and Air Monitoring Plan, Fike Chemical OU3 Superfund Site, Volume 8, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303366-303378.
57. Report: Final Design Submittal, Stormwater Management and Erosion Control Plan, Fike Chemical OU3 Superfund Site, Volume 9, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303379-303383.
58. Report: Final Design Submittal, Explosion and Fire Prevention/Protection Plan, Fike Chemical OU3 Superfund Site, Volume 10, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303384-303390.
59. Report: Final Design Submittal, Equipment Decontamination and Material Disposal Plan, Fike Chemical OU3 Superfund Site Volume 11, prepared by ICF Kaiser Engineers, Inc., 1/31/96. P. 303391-303396.
60. Report: Final Design Submittal, Remedial Action Construction Schedule, Fike Chemical OU3 Superfund Site, Volume 12, 1/31/96. P. 303397-303400.
61. Report: Five Year Review Report, Fike/Artel Chemical, Superfund Site, Nitro, West Virginia, prepared by U.S. EPA, 10/28/96. P. 303401-303403.

IV. REMOVAL RESPONSE PLANNING

1. Report: Federal On-Scene Coordinator's Report for Fike/Artel Chemical Site, Nitro, Putnam and Kanawha Counties, West Virginia, prepared by Mr. Gerald Heston and Mr. Douglas Fox, U.S. EPA, 6/14/88 to 3/18/93.
P. 400001-400141.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/IMAGERY

1. Letter to Mr. Darius Ostrauskas, U.S. EPA, from Mr. Duane C. Rosenlieb, Jr., Attorney at Law, re: Support for EPA's preferred plan for clean up, 12/3/91. P. 500001-500001.
2. Letter to Mr. Darius Ostrauskas, U.S. EPA, from Mr. Donald M. Rosenberg, Kanawha-Charleston Health Department, re: Support of Alternative 7-Removal and Off Site Incineration for clean up, 12/4/91. P. 500002-500004. An envelope is attached.
3. Transcript of public meeting, In The Matter Of: The Public Hearing Concerning the Fike/Artel Chemicals Superfund Site in Nitro, West Virginia, prepared by Neal R. Gross, 12/9/91. P. 500005-500054.
4. Letter to EPA from Mr. William R. Richardson, Jr., re: Concerns about actions at the site, 1/27/92. P. 500055-500056. An envelope is attached.
5. Letter to Mr. Darius Ostrauskas, U.S. EPA, from Mr. Elmer A. Fike, re: Additional comments to those Mr. Fike made at the January 1, 1991 hearing, 1/30/92. P. 500057-500101. The following are attached:
 - a) an article entitled "The High Cost of Political Science at the EPA," Human Events;
 - b) 37 pages of signed petitions;
 - c) a newspaper pamphlet entitled "The Rest of the Story, What the Papers Won't Print About the Artel/Fike Superfund Site;"
 - d) an envelope.
6. Figure 1, Photographs of Nitro, WV, 12/12/17 and 11/30/18, (undated). P. 500102-500102.
7. Figure 2, Sulfuric Acid Department diagram, (undated). P. 500103-500103.
8. Figure 3, Plant Sewer System Map, (undated). P. 500104-500104.
9. Figure 4, Base Map of Sulfuric Acid Plant, (undated). P.500105-500105.

10. Figure 5, Focused Feasibility Study, Study of Potential Subsurface Disposal Areas, (undated). P. 500106-500106.
11. Figure 6, EPA Geophysical Survey Report, Comparison of Burial Locations, (undated). P. 500107-500107.
12. Figure 7, Photograph of Ten Storage Tanks, (undated). P. 500108-500108.
13. Letter to Mr. Thomas Voltaggio, U.S. EPA, from Mr. William H. Hyatt, Jr., Pitney, Hardin, Kipp & Szuch, re: Photographs of trenches being excavated in 1982 at the site and a request for them to be included in the Administrative Record, 1/12/93. P. 500109-500127. The following are attached:
 - a) a letter dated May 20, 1982 regarding transmittal of the photographs;
 - b) a Photograph/Slide Identification list;
 - c) thirty-seven photographs of excavation activities;
 - d) a Operable Unit Two Remedial Design, Anomaly and WW1 Plant Drawing map.

BIBLIOGRAPHY OF SITE SPECIFIC GUIDANCE DOCUMENTS

1. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, prepared by OSWER/OERR, 10/1/88.
OSWER #9355.3-01
2. Ground-Water Protection Strategy, prepared by the Office of Ground-Water Protection, 8/1/84.
EPA/440/6-84-002
3. Guidelines for Ground-Water Classification Under the EPA Ground-Water Protection Strategy (Draft), prepared by Office of Ground-Water Protection, 12/1/86.
4. Guidance on Remedial Actions for Contaminated Ground Water at Superfund Sites, prepared by OERR, 12/1/88.
OSWER #9283.1-2
5. CERCLA Compliance with Other Environmental Statutes, prepared by J.W. Porter/OSWER, 10/2/85.
OSWER #9234.0-2
6. CERCLA Compliance with Other Laws Manual (Draft), prepared by OERR, 8/8/88.
OSWER #9234.1-01
7. CERCLA Compliance with Other Laws Manual Part II: Clean Air Act and Other Environmental Statutes and State Requirements, prepared by OERR, 8/1/89.
OSWER #9234.1-02
8. Risk Assessment Guidance for Superfund, Volume II, Environmental Evaluation Manual, prepared by OERR, 3/1/89.
EPA/540/1-89/001
9. Remedial Action Costing Procedures Manual, prepared by JRB Associates/CH2M Hill/ORD/MERL OSWER/OERR, 10/1/87.